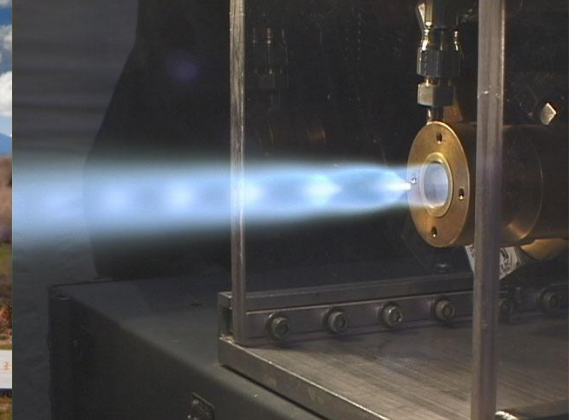




Lynx Research and Education Missions

Khaki Rodway McKee
Emerging Commercial Suborbital Capabilities Workshop
NASA Goddard Space Flight Center
6 September 2011

XCOR In Brief



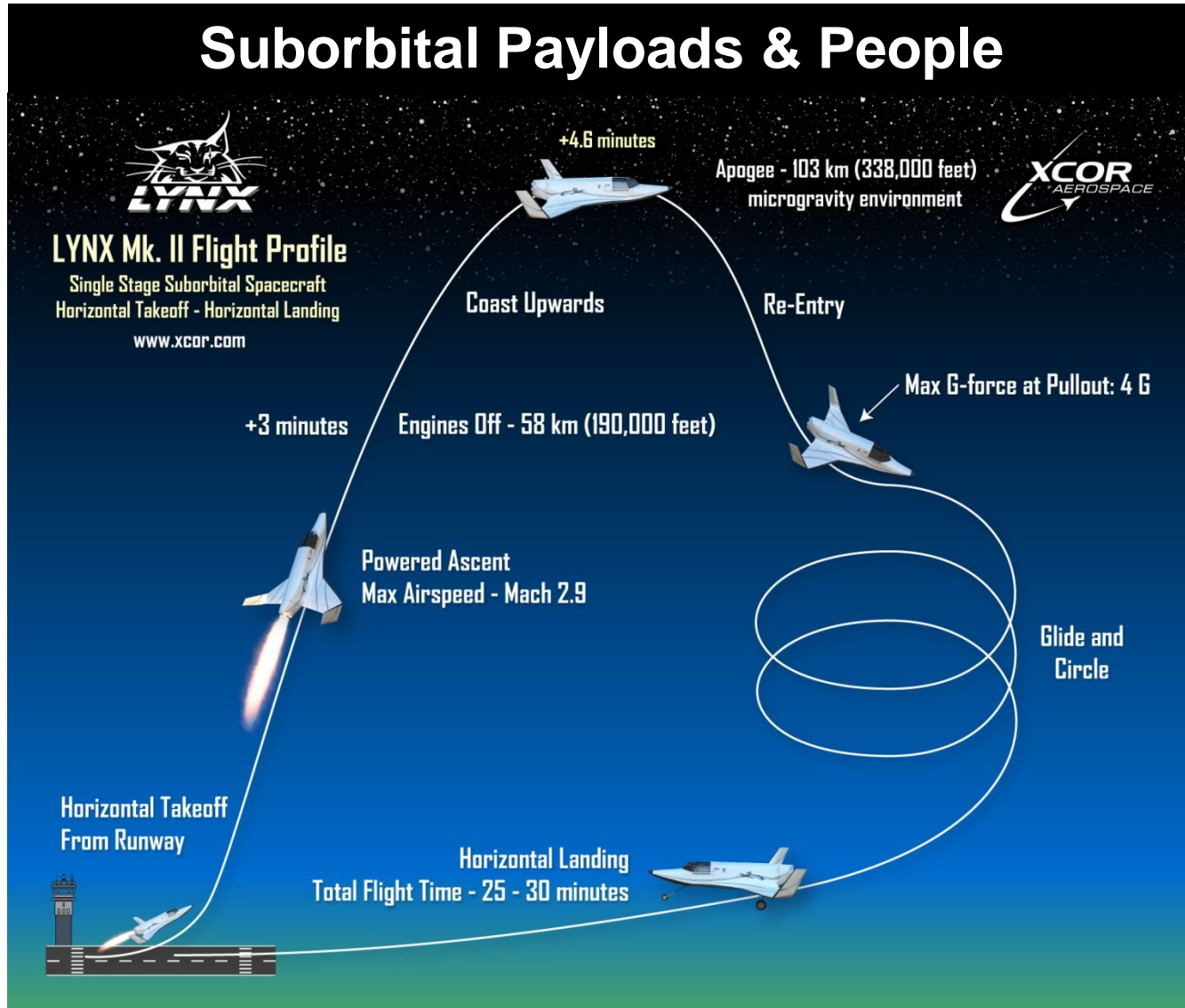
Suborbital RLV Lynx



Mission Profile



Suborbital Payloads & People



External Payloads

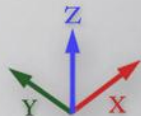


Lynx Mk. II Payload Locations

Cabin Payloads -
see detail view, right

Payloads CP and CS - Cowling Port
and Starboard (secondary)
15 cm diameter x 20 cm depth,
exposed to vacuum. Mass up to
2 kg per port. (fits a double CubeSat)

Payload D - Dorsal Pod (primary)
Cylindrical volume: 76 cm diameter x
340 cm long. Mass up to 650 kg.



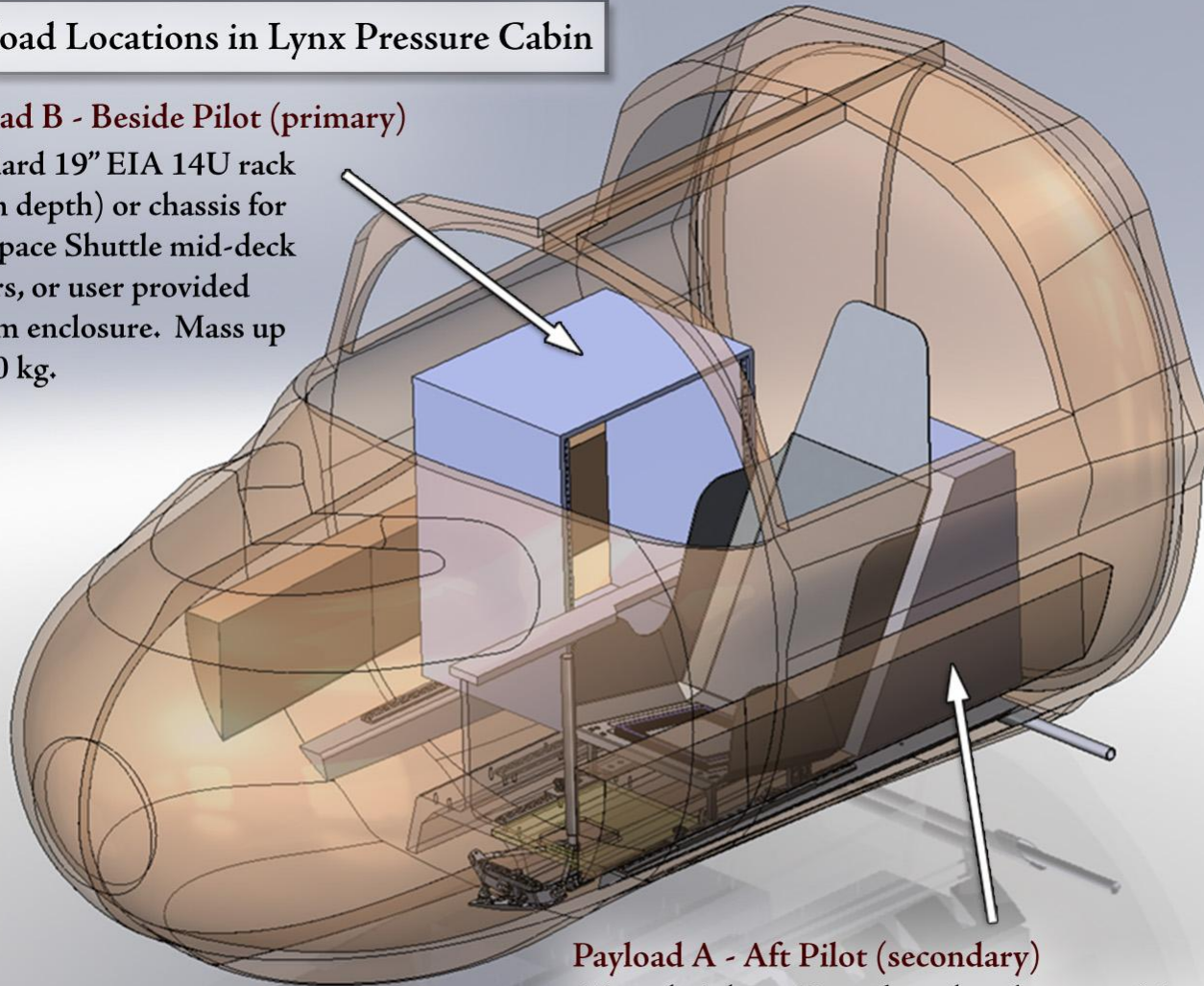
Internal Payloads



Payload Locations in Lynx Pressure Cabin

Payload B - Beside Pilot (primary)

Standard 19" EIA 14U rack (41cm depth) or chassis for two Space Shuttle mid-deck lockers, or user provided custom enclosure. Mass up to 120 kg.

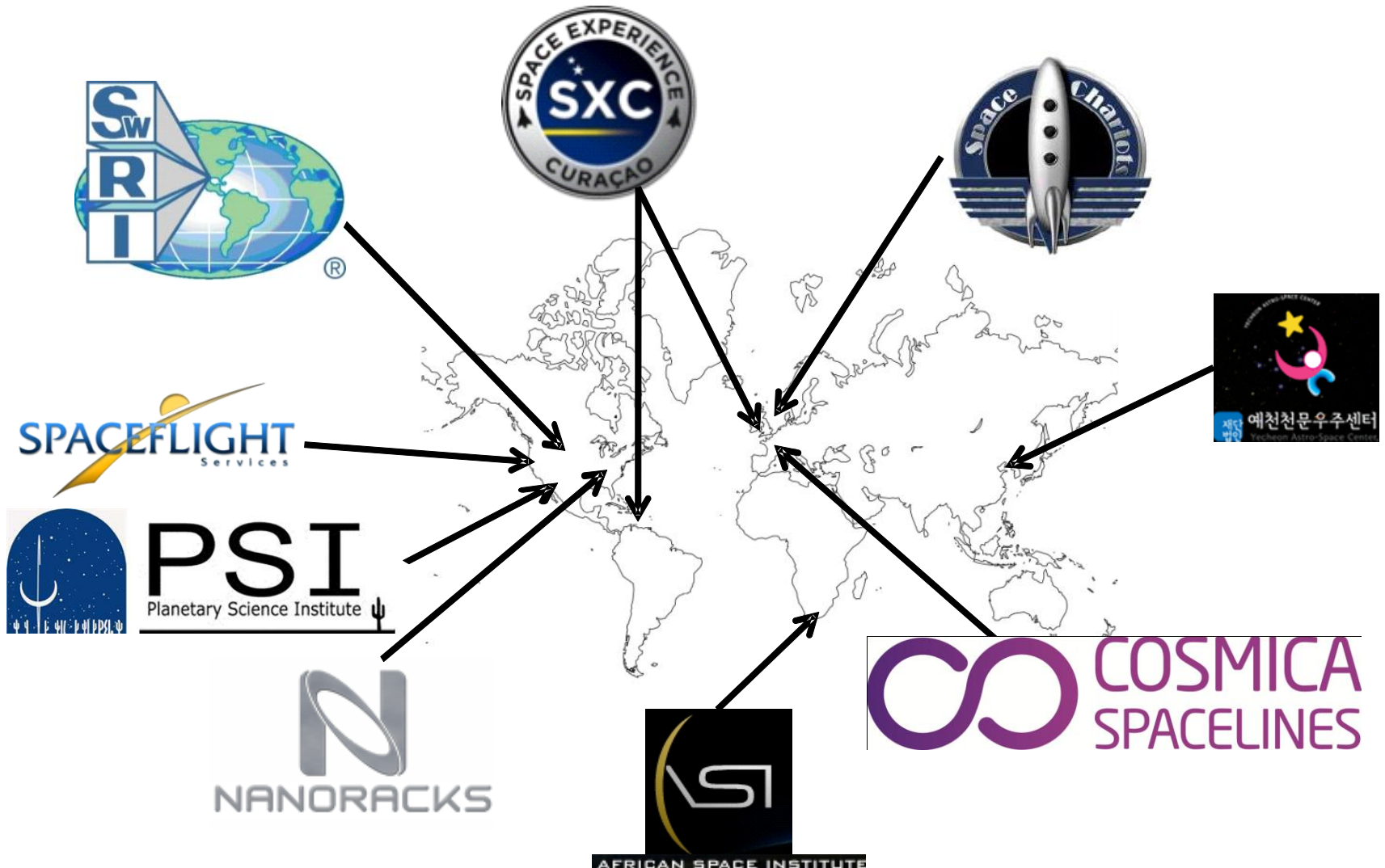


Payload A - Aft Pilot (secondary)

45 cm height x 40 cm length at bottom, 14 cm length at top x 40.5 cm side to side. Mass up to 20 kg.



Payload Integrator Network



PSI Atsa Suborbital Observatory



Conclusion



Recommendation: The U.S. government, working in concert with the private sector, academe, the public, and its international partners, should renew its investment in Earth observing systems and restore its leadership in Earth science and applications.

National Research Council (NRC), *Earth Science and Applications from Space: National Imperatives for the Next Decade and Beyond*, National Academies Press, 2004



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